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**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0004728, Coweta County **OFFICE** Preconstruction
STP-0004-00(728)
SR 54 at SR 154 and McIntosh Trail **DATE** June 1, 2005

FROM *Cybil Kunkle*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT REVISED PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

David Mulling
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Babs Abubakari
Thomas Howell
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0004-00(728), Coweta County
P.I. No.: 0004728
SR 54 at SR 154 and CR 55/McIntosh Trail

OFFICE: Traffic Safety and Design
DATE: May 17, 2005

Keith Golden

FROM: Keith Golden, P.E., State Traffic Safety and Design Engineer

TO: Meg Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT: Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDPP).

The above safety improvement concept has been approved to improve the intersection of SR 54 at SR 154 and CR 55 by widening SR 54 to provide left turn lanes in each direction and widening both SR 154 and CR 55 to provide right turn lanes in each direction. The installation of a stop and go traffic signal has also been approved.

However, the 20 year traffic projections required adding left turn lanes to both SR 154 and CR 55 and adding right turn lanes to SR 54 in each direction. Adding right and left turn lanes will require additional right of way and will extend the project limits.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

Date 5/20/05

Joseph P. Palladi
State Transportation Planning Administrator

Distribution:

- Brian Summers, State Project Review Engineer
- Harvey Keeper, State Environmental/Location Engineer
- Joe Palladi, State Transportation Planning Administrator
- Jamie Simpson, State Financial Management Administrator
- Thomas Howell, District Engineer-Thomaston

REVISED PROJECT CONCEPT REPORT

COWETA COUNTY

STATE ROUTE NO: 54/154

GADOT P.I. NO: 0004728

Need and Purpose: Twenty four accidents occurred at this intersection from 2003-2005, including eighteen angle accidents, four rear-end accidents, and two sideswipe accidents. In addition, warrants 1, 2, and 3 were met in the traffic signal warrant evaluation. The installation of left-turn lanes on S.R. 54 and right-turn lanes on S.R. 154@C.R.55/McIntosh Trail, along with the installation of a traffic signal, should reduce the number of accidents. To improve the safety and orderly progression of traffic through the intersection, these improvements are recommended.

Project location: The intersection of S.R. 54 at S.R. 154 and C.R. 55/McIntosh Trail is located in the City of Sharpsburg, Coweta County, 5 miles southwest of the Fayette County line and 12 miles northeast of the Meriwether County line.

Description of the approved concept: S.R 54 will be widened 12 feet to the east to provide left turn lanes in each direction. S.R. 154 and C.R. 55/McIntosh Trail will be widened 12 feet to provide right turn lanes in each direction. A stop and go traffic signal will be installed at the intersection.

PDP Classification: Minor Existing

Federal Oversight: Full Oversight (), Exempt(X), State Funded(), or Other ()

Functional Classification: S.R. 54 – Major Rural Collector, S.R. 154 – Minor Rural Arterial

U. S. Route Number(s): _____ **State Route Number(s):** SR 54/SR154

Traffic (AADT) as shown in the approved concept:

Current Year: 2001 – 6468 (SR54)/3259 (SR154) Design Year: _____

Proposed features to be revised: S.R. 54: 3 – 12 ft. travel lanes, one through lane in each direction with a northbound and southbound left-turn lanes. Shoulders will be 10.5 ft., 6.5 ft. paved and 4 ft. grassed.

S.R. 154: 3 – 12 ft. travel lanes, one in each direction and one right-turn lane eastbound. Shoulders will be 10.5 ft., 6.5 ft. paved and 4 ft. grassed.

C.R. 55/McIntosh Trail: 3-12 ft. travel lanes, one in each direction and one right-turn lane westbound. Shoulders will be 10 ft., 4 ft. paved and 6 ft. grassed.

The typical is being revised due to future traffic considerations in the intersection. The termini on S.R. 54 and S.R. 154/McIntosh Trail will be revised and additional right of way will be required.

Describe the revised feature(s) to be approved:

S.R. 54: 4 – 12 ft. travel lanes, one through lane in each direction with northbound and southbound left-turn lanes and right-turn lanes. Shoulders will be 10.5 ft., 6.5 ft. paved and 4 ft. grassed.

S.R. 154: 4 – 12 ft. travel lanes, one in each direction and one right-turn lane and one left-turn lane eastbound. Shoulders will be 10.5 ft., 6.5 ft. paved and 4 ft. grassed.

C.R. 55/McIntosh Trail: 4-12 ft. travel lanes, one in each direction and one right-turn lane and one left-turn lane westbound. Shoulders will be 10 ft., 4 ft. paved and 6 ft. grassed.

The project termini on S.R. 54 have been modified for the lengthened turn lanes. The project now begins at milepost 10.82 and ends at mile post 11.21.

Updated traffic data (AADT):

Current Year: 2007 – 10300 (SR54)	Design Year: 2027 – 16900 (SR54)
Current Year: 2007 – 7450 (SR154)	Design Year: 2027 – 12200 (SR154)
Current Year: 2007 – 1650 (CR55)	Design Year: 2027 – 2700 (CR55)

Previously Programmed/Schedule:

P.E.: \$5000 R/W: \$137,500 Construction: \$839,400

Revised/current cost estimates:

1. Construction cost including inflation and E&C: \$1,003,000
2. Right-of-way: \$216,000
3. Utilities: \$133,450

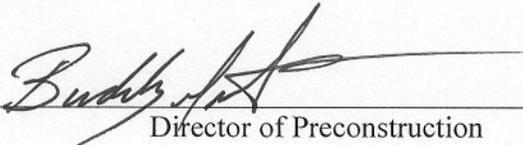
Is the project located in a Non-attainment area?Yes**X** No.

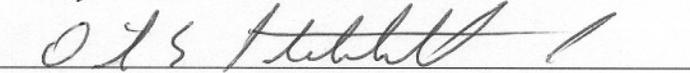
Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map,
2. Cost Estimate,
3. Conforming plan's network schematics showing thru lanes, (Note: This attachment is required for non-attainment areas only.), and
4. Other supporting documents.

• **Exempt projects**

Concur: 
Director of Preconstruction

Approve: 
Chief Engineer

SCORING RESULTS AS PER TOPPS 2440-2

Project Number:	County:	PI No.:	
Report Date:	Concept By:		
	DOT Office:		
<input type="checkbox"/> CONCEPT			
	Consultant:		
Project Type: Choose One From Each Column	<input type="checkbox"/> Major <input type="checkbox"/> Minor	<input type="checkbox"/> Urban <input type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous
FOCUS AREAS	SCORE	RESULTS	
Presentation			
Judgement			
Environmental			
Right of Way			
Utility			
Constructability			
Schedule			

NOTICE OF LOCATION AND DESIGN APPROVAL

**STP-0004-00(728), Coweta County
P.I. Number: 0004728**

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of this project.

Date of Location and Design Approval: *JUNE 1, 2005*

The project is located at the intersection of SR 54 with SR 154 and CR 55/McIntosh Trail in the City of Sharpsburg, Coweta County, 5 miles southwest of the Fayette County line and 12 miles northeast of the Meriwether County line. The project lies within Land District 1, Land Lot 117, and GMD 645.

The project proposes to widen SR 54 to provide right and left turn lanes in each direction. SR 154 and CR 55/McIntosh Trail will be widened symmetrically to provide right and left turn lanes in each direction. The project also proposes to install a stop and go traffic signal at this intersection.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

**Kenneth D. Crabtree, Jr., Area Engineer
Georgia Department of Transportation
1107 Hogansville Road
LaGrange, Georgia 30241**

(706) 845-4115

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

**Keith Golden, P.E., State Traffic Safety and Design Engineer
Office of Traffic Safety and Design
935 E. Confederate Avenue, Bldg. No. 24
Atlanta, Georgia 30316**

(404) 635-8115

Any written request or communication in reference to this project or notice SHOULD include the Project and P.I. Numbers as noted at the top of this notice.

Preliminary Cost Estimate

Project No.:	STP-0004-00(728)
PI No.:	0004728
GS&P Project No.:	22869.07
Date:	3/28/05
Description:	SR 54 @ SR 154 and MCINTOSH TRAIL
County:	COWETA
Length of Roadway:	.59 miles

Project Cost

A. Right of Way

1. Property (Land & Easement)	\$0.00	\$0
2. Displacements: Res:0, Bus:0, M.H.:0	\$0.00	\$0
3. Other Costs (Admin./Cost, Inflation)	\$0.00	\$0

Subtotal: A **\$0**

B. Reimbursable Utilities

1. Railroad	\$0.00	\$0
2. Transmission Lines	\$0.00	\$0
3. Services	\$0.00	\$0

Subtotal: B **\$0**

C. Construction

1. Major Structures

1 Retaining Walls	\$0.00	\$0
2 Bridges	\$0.00	\$0
3 Detour Bridges	\$0.00	\$0
4 Box Culverts	\$0.00	\$0
5 Remove Existing Bridge	\$0.00	\$0

Subtotal: C-1 **\$0**

2. Grading & Earthwork

1 Grading complete	\$275,000.00	LS		\$275,000
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Subtotal: C-2 **\$275,000**

3. Drainage

1 Drainage pipes			
1,300 LF18"RCP @	\$28.86		
288 LF24"RCP @	\$33.84		

Subtotal: C-3 **\$37,518**
\$9,746

4. Base & Paving

1 Asphalt Paving			
1,555 Ton 12.5 mm Superpave	\$36.73		\$57,115
1,078 Ton 19mm Superpave	\$38.08		\$41,050
1,464 Ton 25mm Superpave	\$34.87		\$51,050
1,000 Ton Leveling @	\$37.86		\$37,860
892 gal Bitum. Tack @	\$0.91		\$812
2 Graded Aggregate Base			
4,493 Ton 12" GAB	\$ 12.28		\$55,174
1,768 Ton 10" GAB	\$ 13.79		\$24,381
400 Ton 6" GAB	\$ 8.41		\$3,364

Subtotal: C-4 \$270,806

5. Concrete Work

1 Curb & Gutter			
0 LF Type 2 @	\$23.46		\$0
2 V-Gutter			
925 LF 6" @	\$26.90		\$12,350
3 Concrete Sidewalk			
0 SY 4" @	\$35.31		\$0
4 Raised Concrete Islands			
4 CY @	\$410.56		\$1,642
5 Curb Cut Wheelchair Ramp			
6 EA Type A	\$503.06		\$3,018
6 Header Curb			
205 LF Type 2 @	\$11.39		\$2,335
7 Concrete Ditch			
146 SY 4" @	\$25.33		\$3,698

Subtotal: C-5 \$13,992

6. Signing & Striping

Striping and signing	1	LS	\$20,000	\$20,000
Traffic Signal	1	LS	\$100,000	\$100,000

Subtotal: C-6 \$120,000

7. Lighting

Overhead Lights		\$0.00		\$0
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Subtotal: C-7 \$0

9. Traffic Control

1 Lump Sum \$50,000 \$50,000

Subtotal: C-9 \$50,000

Preliminary Cost Estimate Summary

10. Clearing & Grubbing

A. Right of Way 6.25 AC @ \$6,000 \$37,500

Subtotal: C-10 \$37,500

B. Reimbursable Utilities

C. Construction

11. Permanent Erosion Control

4.00 AC Grassing @ \$ 753.58 \$3,014

2. Grading & Earth 60.00 ton Mulch @ \$ 199.20 \$11,952

Subtotal: C-11 \$14,966

12. Temporary Erosion Control

1 Lump Sum \$15,000 1 \$15,000

Subtotal: C-12 \$15,000

5. Signing & Striping

7. Lighting

8. Guardrail

8. Traffic Control

10. Clearing & Grubbing

11. Permanent Erosion Control

12. Temporary Erosion Control

SUBTOTAL CONSTRUCTION COST \$300,000

E & C (5%) \$15,000

INFLATION (5% PER 2 YEARS) \$10,000

TOTAL CONSTRUCTION COST \$325,000

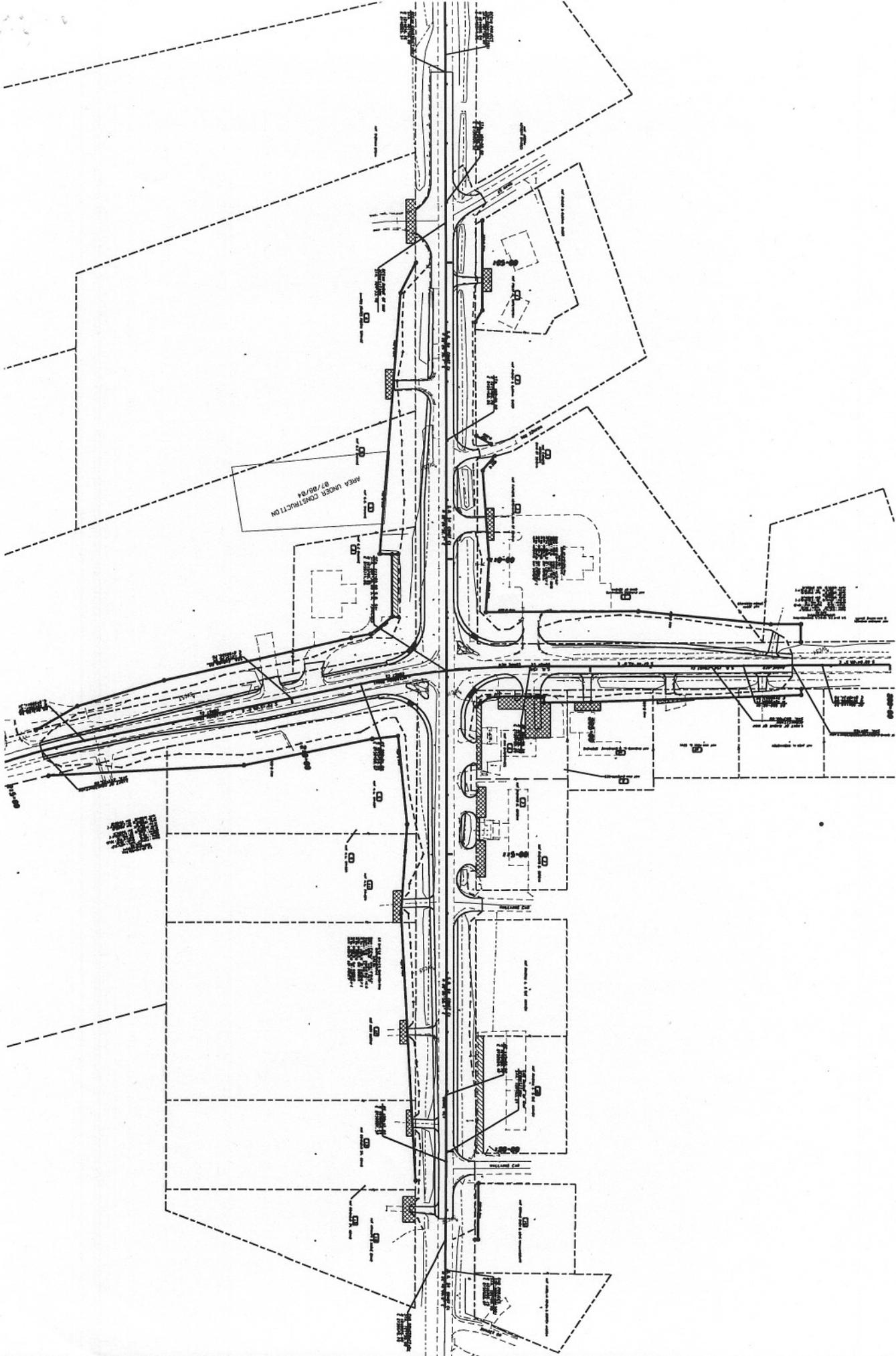
GRAND TOTAL PROJECT COST \$1,000,000

The manufacturer, the supplier or provider of any item or service listed is responsible for the accuracy of the quantities and specifications and agreement on the

Preliminary Cost Estimate Summary

A. Right of Way	\$0
B. Reimbursable Utilities	\$0
C. Construction	
1. Major Structures	\$0
2. Grading & Earthwork	\$275,000
3. Drainage	\$71,600
4. Base & Paving	\$270,806
5. Concrete Work	\$13,992
6. Signing & Striping	\$120,000
7. Lighting	\$0
8. Guardrail	\$0
9. Traffic Control	\$50,000
10. Clearing & Grubbing	\$37,500
11. Permanent Erosion Control	\$14,966
12. Temporary Erosion Control	\$15,000
SUBTOTAL CONSTRUCTION COST	\$868,864
E. & C. (5%)	\$43,443
INFLATION (5% PER 2 YEARS)	\$91,339
TOTAL CONSTRUCTION COST	\$1,003,647
GRAND TOTAL PROJECT COST	\$1,003,647

the marketplace, the opinion of probable cost as herein stated is made on the basis of our experience and qualifications and represent our best



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